Marios Voskou

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Research Interests

Analytic Number Theory, Spectral Theory of Automorphic Forms.

Employment

2025 –2027	**Postdoctoral Researcher**, *Alfréd Rényi Institute of Mathematics, Budapest (in the group of Gergely Harcos)*
Feb–Aug 2025	**Guest Researcher**, *Max Planck Institute for Mathematics, Bonn, Germany*
Sep–Dec 2024	**Associate Lecturer**, *University of Central Lancashire, Cyprus Branch (part-time)*

Education

2020–2025	**PhD in Mathematics**, *University College London (LSGNT aligned)*
	○ **Specialization:** Analytic Number Theory
	○ **Thesis Title:** Distributional Results for Geodesic Segments in the Hyperbolic Plane.
	○ **Supervisor:** Professor Yiannis Petridis
2019–2020	**MMath in Mathematics**, *Queens' College, University of Cambridge*
	○ **Specialization:** Number Theory
	○ **Essay Title:** Large Gaps Between Primes (Supervisor: Dr T. Bloom)
	○ **Grade:** 87.3% Honours (Unclassified due to COVID-19)
2016–2019	**BA in Mathematics**, *Queens' College, University of Cambridge*
	○ **Grades:** First Class Honours all three years.

Publications and Preprints

Large Sieve Inequalities for periods of Maass forms, Res. number theory **10**, 73 (2024). (joint with D. Lekkas)

An Ω-Result for the Counting of Geodesic Segments in the Hyperbolic Plane, accepted for publication in Proceedings of the American Mathematical Society (2025). [arXiv:2411.12567]

Refined Counting of Geodesic Segments in the Hyperbolic Plane, preprint. [arxiv:2407.03134]

Joint Equidistribution of Endpoints of Geodesic Segments in the Hyperbolic Plane, in preparation.

Awards and Scholarships

2016–2020	State Scholarships Foundation (Cyprus).
2012,2014,2016	3 Honourable Mentions in International Mathematical Olympiad.
2014	Bronze Medal in Balkan Mathematical Olympiad.
2012-2016	Numerous awards and medals in national Olympiads in Mathematics, Physics, Chemistry, and Astronomy.

Selected Talks

Dec 2025	(upcoming) 19th Panhellenic Conference in Mathematical Analysis, Athens
Dec 2025	(upcoming) 3rd Greek Number Theory Seminar, Patras
Jul 2025	Number Theory Lunch Seminar, Max Planck Institute for Mathematics, Bonn
Jul 2025	Oberseminar Analytic Number Theory and Automorphic Forms, University of Bonn
Jun 2025	PLeaSANT Seminar, Max Planck Institute for Mathematics, Bonn
Feb 2025	Séminaire Arithmétique, Lille
Jan 2025	Drafting Workshop in Discrete Mathematics and Probability, Rényi Institute, Budapest
Sep 2024	Building Bridges: 6th EU/US Workshop on Automorphic Forms and Related Topics (BB6), CIRM, Marseille
April 2024	Analytic Number Theory Program, Mittag-Leffler Institute, Stockholm
Jan 2024	Automorphic Forms Seminar, Budapest, Rényi Institute
Nov 2023	Linfoot Number Theory Seminar, Bristol
Nov 2023	Nottingham Number Theory Seminar
Sep 2023	Y-RANT V, Cambridge
Dec 2022	*Hyperbolic Counting Problems* (UCL Postgraduate Seminar)
Mar 2022	*Prime Numbers, the Riemann Hypothesis, and Beyond* (UCL Undergrad Math Colloquium)
Jan 2022	*Prime-Detecting Sieves* (London Analytic Number Theory study group)
Nov 2021	*Modular Symbols and their Distribution* (London Junior Number Theory Seminar)
May 2021	*Upper Bounds for Moments of L-functions* (London Analytic Number Theory study group)
Jan 2021	*Burgess bounds: Character Sums and Dirichlet L-functions* (London Analytic Number Theory study group)

Teaching and Activities

Teaching

2024	Lecturer for third-year undergraduate course Operational Research (UCLan CY).
2020,2021,2022	Tutor in Analysis 3/Complex Analysis course for second-year undergraduate students (UCL).
2021–2024	Organized weekly Problem Solving Class for undergraduate mathematics students (UCL).

- Includes preparation classes for UCL teams for International Mathematics Competition (IMC).
- Team Leader of UCL for IMC 2023.
- IMC Results of UCL students:
  - (2024): *1 Second Prize, 1 Third Prize, 1 Honourable Mention.*
  - (2023): *1 Second Prize, 1 Third Prize, 1 Honourable Mention.*
  - (2022): *1 First Prize, 1 Second Prize, 1 Third Prize, 1 Honourable Mention.*
  - (2021): *1 Second Prize, 3 Third Prizes.*

Cyprus Mathematical Society

2025	Team Leader for Cyprus in EGMO (European Girls' Mathematical Olympiad).

2024–2026	Member of the Executive Committee.
2024	Deputy Team Leader for Cyprus in EGMO.
2018–2025	Taught Number Theory in IMO Summer Training Camp.
2016–2025	Taught several Olympiad classes, for shortlisted IMO candidates.
2020–2023	Taught at the Cyprus Mathematical Summer Camp (Elementary School).
2021,2022	Marking Coordinator for Number Theory at BalkanMO.
2021	Marking Coordinator for SEEMOUS.
2019	Marking Coordinator for Number Theory at Junior BalkanMO.

Volunteering

Since 2006	Cyprus Association of Cancer Patients and Friends volunteer.

Military Service

2014–2016	Cyprus National Guard, Second Lieutenant of Infantry.

Skills

Programming Languages	Python, Matlab, PASCAL, Visual Basic, C
Further Technologies	Microsoft Office, LaTeX
Languages	Greek (Native), English (Fluent)